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APPLICATION NO.	. FI	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/709,672	05/21/2004		James W. Adkisson	BUR920040002US1 3671	
23550	7590	12/04/2006		EXAM	INER
HOFFMA	N WARN	ICK & D'ALESSA	MERANT, GUERRIER		
75 STATE	STREET				-
14TH FLOOR			ART UNIT	PAPER NUMBER	
ALBANY, NY 12207				2138	

DATE MAILED: 12/04/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/709,672	ADKISSON ET AL.					
Office Action Summary	Examiner	Art Unit					
	Guerrier Merant	2138					
The MAILING DATE of this communication apports of the Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	TE OF THIS COMMUNICATION (6(a). In no event, however, may a reply be time till apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE!	l. Hely filed The mailing date of this communication. D (35 U.S.C. § 133).					
Status	•						
1) Responsive to communication(s) filed on 05/21	<u>//04</u> .						
• ***							
3) Since this application is in condition for allowan	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4) Claim(s) is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6) Claim(s) is/are rejected.	6) Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.	Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers							
9) The specification is objected to by the Examiner.							
10)⊠ The drawing(s) filed on <u>05/21/04</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a):							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
		, - 					
Attachment(s)	4) Interview Summary	(PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date							
3) X Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of Informal P	Patent Application					
Paper No(s)/Mail Date <u>20040521;20040706</u> .	6)						

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DETAILED ACTION

This is the initial office action based on the application filed on May 21, 2004. Claims 1-20 are currently pending and have been considered below.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Morioka et al. (US 6,611,728) and further in view of Gillenwater et al. (US 6,557,115).

Claims 1, 9, 10,15 and 18-20: Morioka et al. discloses a defect table that associates previously studied features with known failures (col. 8, lines 36-62); and a fault isolation system that compares an inputted set of suspected faulty device features with the previously studied features listed in the defect table in order to identify causes of the fail (col. 10, lines 17-33 & col.13, lines 1-25). But Morioka et al. fails to disclose re-using the defected information stored in the defected table to diagnose a failure in an electronic device. However Gillenwater et al. discloses a real-time test controller for diagnostic devices during manufacturing processes. The real-time test controller maintains a failure database (item 40, Fig. 2) containing a history of past failures for

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9-16; Gillenwater et al.).

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devices under test and selectively sorts the history for the device to be tested (abstract). Therefore at the time of the invention, one of ordinary skill in the art would have found it obvious to re-use the defected information stored in the defected table of Morioka et al. to diagnose failures occurring in products under test in order to eliminate wasted time in the testing process and to concentrate on known testing difficulties, thereby providing the manufacturer, and ultimately the costumer, with a substantial savings (col. 3, lines

Claims 2-6, 8, 11-13 and 17: Morioka et al. and Gillenwater et al. disclose a diagnosis system as in claims 1, 9, and 15 above, wherein the previously studied features are selected from the group consisting of: net names, instance names, cell names, physical attributes, logical attributes, presence of a feature, and absence of a feature (col.20, lines 45-67 & col. 11, lines 14-34; Morioka et al.)

Claims 7, 14, and 16: Morioka et al. and Gillenwater et al. disclose a diagnosis system as in claims 1, 9, and 15 above, further comprising a table update system for maintaining and updating the defect table (col. 23, lines 15-26, Fig. 30; Morioka et al.).

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

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a) Mizuno et al. (US 6757621) discloses a process management system for

inspecting defects on a wafer.

b) Koenig (US 6516433) discloses a method for finding the root cause of the

failure of a faulty chip.

c) Cheng et al. (US 20040210803 A1) discloses a built-in self-analyzer for

embedded memory.

d) Ogino (US 20040042293 A1) discloses a Semiconductor memory and method

of testing the same.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Exr. Merant Guerrier whose telephone number is (571)

270-1066. The examiner can normally be reached Monday through Thursday from 10:

30 a.m. to 3:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Albert Decady, can be reached on (571) 272-3819. Draft or Informal faxes,

which will not be entered in the application, may be submitted directly to the examiner at

(571) 270-2066.

Merant Guerrier

11/27/06

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100

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